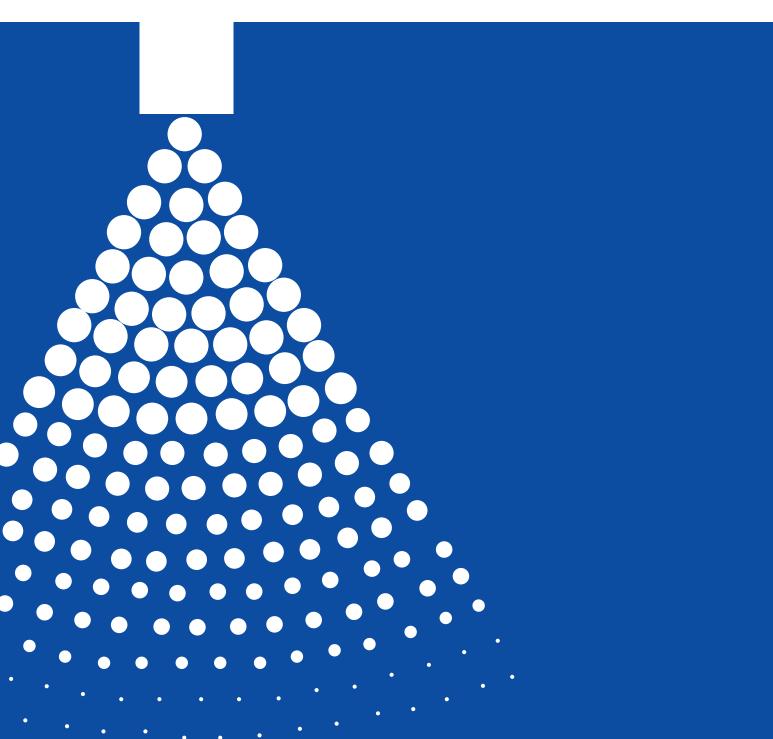


# **CHAPTER 1**







#### Welcome to SPADFLOW

facing the Challenges of new industries and emerging markets.

### Spray Technologies

with over Thousands of Spray Nozzle Types SPADFLOW has become Iran's leading producer.

### From Design to Installation

with Skilled engineers and project managers, SPADFLOW is providing consultancy and support services.

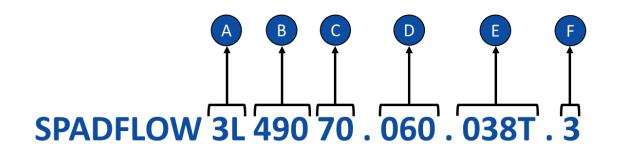
### Knowledge and Experience

as an Expert on spray technology, SPADFLOW is at the forefront of production and innovation.

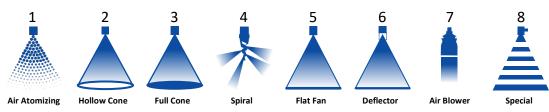




# **PRODUCT NUMBERS**Everything You Need to Know







## **Nozzle Series**

### **Flow Rate Rank**

The flow rate rank is relative and depends on the respective nozzle type. The exact value is mentioned in tables on the product pages.

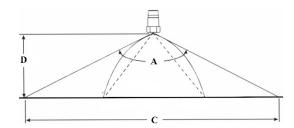
## **Spray Angle**

Theoretical spray angle is mentioned in tables on the product pages. Actual spray angle depends on installation and alignment.

A = Theoretical Spray Angle

D = Spray Distance

C = theoretical Spray Coverage





## PRODUCT NUMBERS

### **Everything You Need to Know**



#### Connection

1/8" to 4" connections. The exact specification is mentioned in tables on the product pages.

T = BSBT Thread Type Connection

P = BSPP Thread Type Connection

N = NPT Thread Type Connection

R = Retaining Nut



#### **Material**

Material	Code	Material	Code
Brass	1	Polyvinylchloride	PVC
AISI 304/304L Stainless Steel	2	Polypropylene	PP
AISI 316/316L Stainless Steel	3	Polyamide	PA
AISI 310 Stainless Steel	4	Polyvinylidenefluoride	PVDF
AISI 321 Stainless Steel	5	Polytetrafluorethylene	PTFE
AISI 420 Stainless Steel	6	Polyoxymethylene	POM
Tungsten Carbide	TN	Nitrile Butadiene Rubber	NBR
Phosphor Bronze	CuSn	Polylactic Acid	PLA
Copper	Cu	Acrylonitrile Butadiene Styrene	ABS
Titanium	TI	Nylon Polyamide	PA6
Aluminum	AL	Polycarbonate	PC

#### Ø B (Equivalent Bore Diameter)

Applies to elliptical discharge holes of flat fan nozzles. A cylindrical hole with a diameter A has the same surface area as the ellipse.

#### Ø E (Narrowest Free Cross Section)

Important Characteristics for determining the pre-filtration of a nozzle. Can be less than a due to several swirl ducts.

Conversion Formula: K factor  $\times \sqrt{P(bar)} = Q(I/min)$ 

All flow rate data in this catalogue is based on measurements with water,

Sprov			Щ	$\vdash$	Flow rate (Q) [l/min]						
Spray angle	Code	Connection Size [inch]	Ø B [mm]	ØE [mm]			Pressure (P) [bar]				
(α)			[]	0.5	1.0 K factor	2.0	3.0	5.0	7.0	10.0	
45°	3L 490 40 . 045	1/8"	1.25	1.25	0.57	0.76	1.00	1.18	1.44	1.65	1.90
	3L 490 60 . 045	1/4"	2.00	2.00	1.81	2.39	3.15	3.70	4.54	5.20	6.00
	3L 490 70 . 045	3/8"	2.65	2.65	3.22	4.24	5.60	6.59	8.08	9.24	10.66
	3L 490 78 . 045	1/2"	3.45	3.45	5.17	6.82	9.00	10.58	12.98	14.85	17.12
60°	3L 490 40 . 060	1/8"	1.15	1.15	0.57	0.76	1.00	1.18	1.44	1.65	1.90
	3L 490 80 . 060	3/8"	3.70	3.70	5.74	7.58	10.00	11.76	14.43	16.51	19.04
	3L 490 88 . 060	1/2"	4.65	4.65	9.19	12.13	16.00	18.82	23.08	26.41	30.46
	3L 490 96 . 060	3/4"	5.80	5.80	14.36	18.95	25.00	29.40	36.07	41.26	47.59

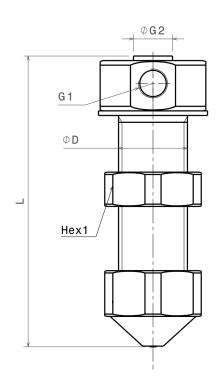
SPADFLOW spray nozzles are manufactured with the highest precision and undergo permanent quality checks. However, production-related tolerances can affect the spray angle, flow rate, droplet size and droplet distribution.

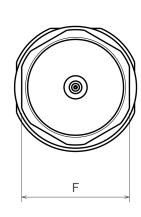




# SPADFLOW 1MA External Mixing Spray Nozzle









**Properties:** 

Homogeneous Spray Distribution Very Fine Atomization at Low Liquid Pressures **External Mixing** Multiple parts Reduced air consumption

<sup>\*</sup> Different Materials are Available Upon Request.

61	G2	Dimensions [mm]				
G1	GZ	L	D	F	Hex1	
1/4"	1/4"	127	M30	42	42	

	Flow			
Nozzle Code	Air = 1.5 bar	Air = 3 bar	Spray Angle*	
	Liq. = 1.5 bar	Liq. = 3 bar		
1MA . 060 . 040 . 3	0.15 l/min	0.18 l/min	40°	

<sup>\*</sup> Spray Angle May Vary Depending on Air and Liquid Pressures.



Material\* Code **Brass** 1 S.S.304 2 S.S.316 3